IN THE CLAIMS:

Please amend claims 1-23 as follows.

1. (Currently Amended) A method of generating modulator output signal values when employing a multi-level modulation method, the method comprising:

storing a pre-defined number of values corresponding to data symbols and representing a signal or a pulse format,

selecting values representing [[a]] the signal or [[a]] the pulse format to be used to define in-phase and quadrature component values,

defining the in-phase and ~~the~~ quadrature component values using the selected values representing [[a]] the signal or [[a]] the pulse format, and

defining the modulator output signal values by summing the in-phase and ~~the~~ quadrature component values while the number of the in-phase and ~~the~~ quadrature component values to be summed is determined by [[the]] a number of inter-dependent symbols.

2. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the modulator output signal values being formed are base-band values.

3. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the values representing [[a]] the signal or [[a]] the pulse format are stored in a look-up table.

4. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the values representing [[a]] the signal or [[a]] the pulse format are stored in a format which also comprises an offset-rotation of the signal.

5. (Currently Amended) [[A]] The method as claimed in claim 1, further comprising storing~~, according to the modulation method,~~ values corresponding to each data symbol and representing [[a]] the signal [[a]] or the pulse format.

6. (Currently Amended) [[A]] The method as claimed in claim 1, wherein at least one of the values ~~value~~ corresponding to the data symbols and representing [[a]] the signal or [[a]] the pulse format used to define the in-phase and ~~the~~ quadrature component values is formed of one real-value signal.

7. (Currently Amended) [[A]] The method as claimed in claim 1, wherein at least one of the values ~~value~~ corresponding to the data symbols and representing the signal or the pulse format used to define the in-phase and ~~the~~ quadrature component values is formed of two real-value signals.

8. (Currently Amended) ~~A~~ The method as claimed in claim 1, wherein in 8-PSK modulation, a corresponding 16-PSK-modulated symbol is defined, and a decision is made on which one of the stored values representing the signal or the pulse format is used

to form the modulator output signal values ~~value~~ and ~~what are~~ the signs of the values representing [[a]] the signal or [[a]] the pulse format in the modulator output signal values ~~value~~ summing expression~~.of the modulator.~~

9. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the number of inter-dependent symbols is determined on [[the]] a basis of the properties of [[the]] a system filter.

10. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the ~~modulation~~ multi-level modulation method ~~of generating modulator output signal values~~ is multi-level phase shift keying.

11. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the values representing [[a]] the signal or [[a]] the pulse format are samples of a modulating signal.

12. (Currently Amended) A transmitter in which modulator output signal values are generated by a multi-level modulation method, the transmitter comprising:

means for storing a pre-defined number of values corresponding to data symbols and representing a signal or a pulse format,

means for selecting values representing [[a]] the signal or [[a]] the pulse format to be used to define in-phase and quadrature component values,

means for defining the in-phase and ~~the~~ quadrature component values using the selected values representing [[a]] the signal or [[a]] the pulse format, and

means for defining the modulator output signal values by summing the in-phase and ~~the~~ quadrature component values while the number of the in-phase and ~~the~~ quadrature component values to be summed is determined by [[the]] a number of inter-dependent symbols.

13. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein [[he]] the modulator output signal values to be formed are base-band values.

14. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein the values representing [[a]] the signal or [[a]] the pulse format are stored in a look-up table.

15. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein the values representing [[a]] the signal or [[a]] the pulse format are stored in a format which also comprises an offset-rotation of the signal.

16. (Currently Amended) [[A]] The transmitter as claimed in claim 12, further comprising means for storing~~, according to the modulation method,~~ values corresponding to each data symbol and representing [[a]] the signal or [[a]] the pulse format.

17. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein at least one value corresponding to the data symbols and representing [[a]] the signal or [[a]] the pulse format used to define the in-phase and ~~the~~ quadrature component values is formed of one real-value signal.

18. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein at least one value corresponding to the data symbols and representing [[a]] the signal or [[a]] the pulse format used to define the in-phase and ~~the~~ quadrature component values is formed of two real-value signals.

19. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein in 8-PSK modulation, a corresponding 16-PSK-modulated symbol is defined, and a decision is made on which one of the stored values representing [[a]] the signal or [[a]] the pulse format is used to form the modulator output signal values ~~value~~ and ~~what are~~ the signs of the values representing [[a]] the signal or [[a]] the pulse format in [[the]] an output signal value summing expression ~~of the modulator~~.

20. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein the number of inter-dependent symbols is determined on the basis of the properties of ~~the~~ a system filter.

21. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein the multi-level modulation method is multi-level phase shift keying.

22. (Currently Amended) [[A]] The transmitter as claimed in claim 12, wherein the values representing [[a]] the signal or [[a]] the pulse format are samples of a modulating signal.

23. (Currently Amended) A transmitter in which modulator output signal values are generated by a multi-level modulation method, the transmitter is configured to:

store a pre-defined number of values corresponding to data symbols and representing a signal or a pulse format,

select values representing ~~a~~ the signal or ~~a~~ the pulse format to be used to define in-phase and quadrature component values,

~~definine~~ define the in-phase and quadrature component values using the selected values representing [[a]] the signal or [[a]] the pulse format, and

define ~~the~~ modulator output signal values by summing the in-phase and ~~the~~ quadrature component values while the number of the in-phase and ~~the~~ quadrature component values to be summed is determined by [[the]] a number of inter-dependent symbols.